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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/705,722	11/06/2000	Ju-Hwan Kim	P-147	7809

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EXAMINER

WORKU, NEGUSSIE

ART UNIT	PAPER NUMBER
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2626

DATE MAILED: 07/16/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/705,722

Applicant(s)

KIM, JU-HWAN

Examiner

Negussie Worku

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2000.
- 2a) ☒ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 8 and 13 is/are allowed.
- 6) ☐ Claim(s) 1-4 is/are rejected.
- 7) ☒ Claim(s) 5-7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, are rejected under 35 U.S.C. 102(b) as being anticipated by Maemura et al. (USP 5159465).

With respect to claim 1, Maemura et al. discloses a method for operating the facsimile mailbox service (shown in fig 1) subscriber apparatus comprising: a first step of discriminating the type of a facsimile message as received (determining a data transmission speed in a facsimile machine, see col.4, lines 35-36); a second step of detecting an error (FCS an error detecting code detect error, see col.14, lines 23-26), according to the discriminated type and storing the received facsimile message (the receiver stores in RAM 3 of fig 1); a third step of discriminating a transmittal mode of the facsimile message to be transmitted (information regarding the destination areas for which the ECM mode is to be used, see (col.14, lines 57-60); and a fourth step of

converting the facsimile data according to the discriminated transmittal mode and transmitting it, see (col.14, lines 60-65).

With respect to claim 2, Maemura et al. discloses the method wherein the second step comprising: a first sub-step of checking a FCS (Frame Check Sequence), (error detecting code FCS as shown in fig 14a and 14b) in case that a received facsimile message is a data in ECM (Error Correction Mode), see (col.14, lines 22-27) and storing the received facsimile message if no error is detected, see (step 201-206 of fig 11a); and a second sub-step of converting a general facsimile compressed data into a binary data in case that the received facsimile message is the general facsimile compressed data, (a CODEC 7 of fig 1 which compresses data information to be transmitted) checking whether there is an error through an MMR (Modified Modified READ), (conventional error correction mode, see col.6, lines 26-29) and storing the received facsimile message if no error is detected, see (col.6, lines 60-65).

With respect to claim 3, Maemura et al. discloses the method wherein the first step comprising sub-steps: storing a received facsimile message in a memory (the receiver stores the received image information in its RAM 3 of fig 1) by means of a facsimile controller (CPU 1 of fig 1, see col.13, lines 45-48) in case that the received facsimile message is a data in ECM after a type of the facsimile message is discriminated, see

(col.13, lines 20-26); performing FCS checking (as shown in fig 14a and 14b) for the stored facsimile message in ECM (stores in RAM 3 of fig 12a); transmitting the facsimile message in ECM stored in the memory (RAM 13 of fig 1) to a facsimile image data processor (CPU 1 of fig 1), in case that no error is detected in the FCS checking (see 9fig 14a and 14b); and storing the facsimile message in ECM in a buffer memory (RAM 3 of fig 1) by means of a facsimile image data processor (CPU 1 of fig 1).

With respect to claim 4, Maemura discloses the method (as shown in fig 1) further comprising a step of requesting a PSTN (public telephone network, see col.6, lines 63-68) switching center to re-transmit the data, in case that an error is detected, see (col.14, lines 44-54).

Objected Subject Matter

3. Claims 5, 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With respect to claim 5 the prior art does not disclose the method wherein the second sub-step comprising steps of: transmitting a received facsimile message to a facsimile image data processor, in case that the received facsimile message is a

general facsimile compressed data upon discrimination of the type of the facsimile message; decoding the received facsimile message to a facsimile image binary data by means of a facsimile image data processor; checking whether there is an error according to an MMR decoding for the facsimile image binary data by means of the facsimile image data processor; refusing to receive the data in case that its error rate of the data is larger than a rate set for judging a refusal to receive a data, performing a re-transmission request procedure in case that its error rate is larger than a rate set for judging that the data is good and smaller than a rate set for judging a refusal to receive it, and storing the decoded facsimile image binary data in an image memory in case that its error rate is smaller than a rate for judging that the data is good, upon checking; and reading the facsimile image binary data from the image memory and storing it in the buffer memory by means of the facsimile image data processor.

With respect to claim 6, the prior art does not disclose the method wherein the third step comprising sub-steps of: recording the facsimile image binary data of the buffer memory in the image memory upon being informed of the facsimile image binary data transmission; coding the facsimile image binary data recorded in the image memory by means of the facsimile image data processor; and discriminating a transmittal mode of the coded facsimile data.

With respect to claim 7, the prior art does not disclose method wherein the fourth step comprising sub-steps of: converting a facsimile data to be transmitted to a frame data in ECM, in case that the facsimile data to be transmitted is discriminated to be a data in ECM; and converting a facsimile data to be transmitted to a general facsimile compressed data in case that the facsimile data to be transmitted is not a data in ECM upon discrimination.

Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowable subject matter: With respect to claim 8-12, the prior art does not disclose method for operating the facsimile mail box service subscriber apparatus comprising: a first step of discriminating whether a received and restored facsimile data is a data in ECM or a general facsimile compressed data; a second step of reverse-coding the general facsimile compressed data to a binary form in case that the received and restored facsimile data is a general facsimile compressed data, and detecting whether there is an error with it; a third step of restoring an error if the error is detected and storing a facsimile image binary data in a good condition in an image memory; and a fourth step of recording the facsimile image binary data stored in the image memory in the buffer memory, and recording the facsimile image binary data of the buffer memory in a storing unit when the recording is completed.

With respect to claim 13, the prior art does not disclose or teach a facsimile mailbox service subscriber apparatus having a facsimile controller for processing a facsimile protocol and a facsimile data, a buffer memory for storing data to be received and transmitted from and to an external unit, and a memory for storing the facsimile data, comprising: an image memory for storing a facsimile image binary data; and a facsimile image data processor for receiving a coded facsimile data from a facsimile controller, reverse-coding the facsimile data to a binary data, storing it in the image memory and transmitting it to a buffer memory, and reading the facsimile image binary data recorded in the image memory, coding and storing it in a memory.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 305-5441. The examiner can normally be reached on 7am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system; contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).


Negussie Worku

07/07/04


MARK WALLERSON
PRIMARY EXAMINER